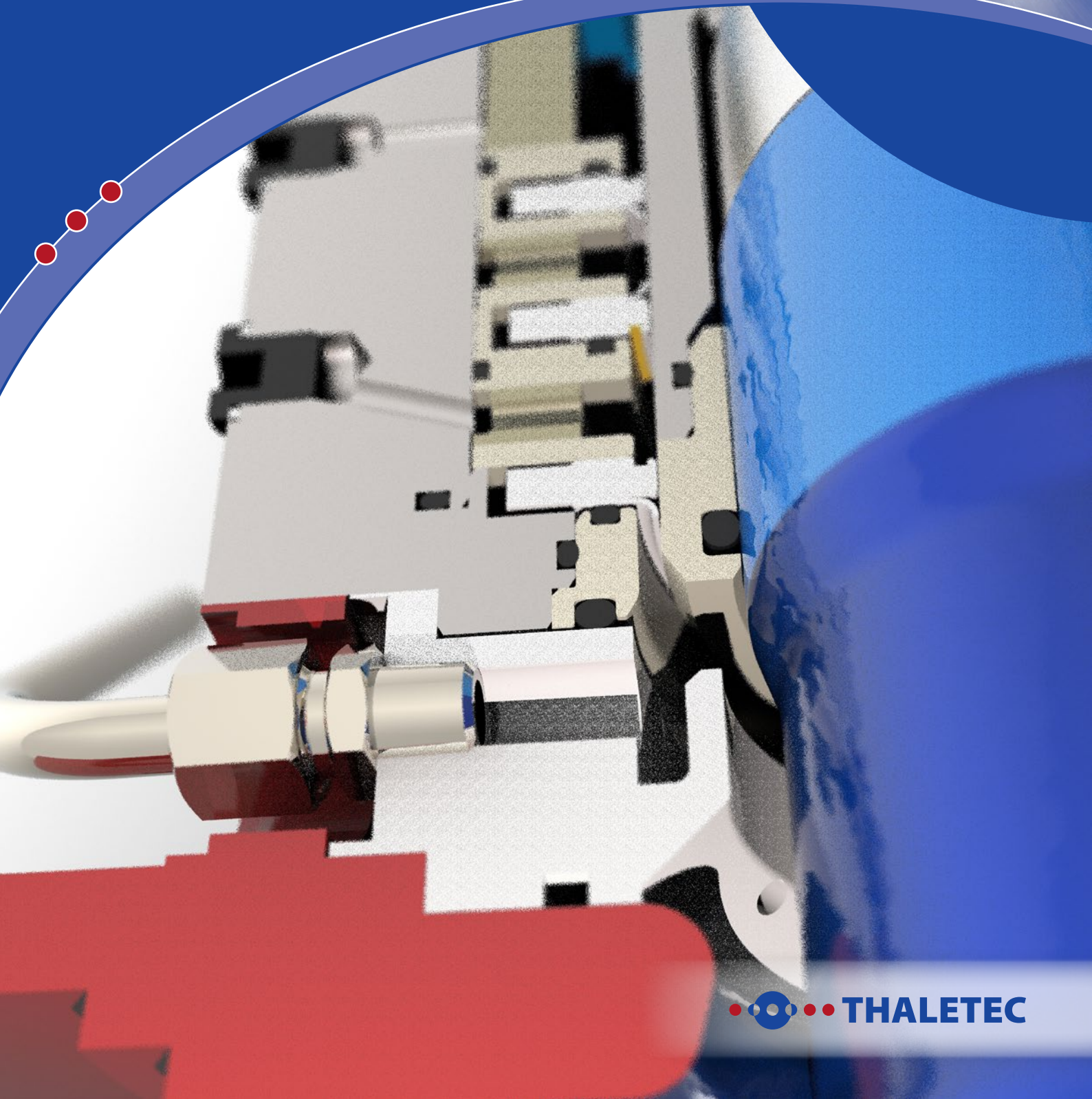





THALETEC SeccoLip TT

Lip seal modular system
for glass-lined agitators



In addition to mechanical seals, lip seals are another way of safely and effectively sealing the stirrer shafts of glass-lined agitators. In close cooperation with THALETEC, EagleBurmghann () has developed a lip seal for glass-lined reactors and stirred vessels as well as for agitators from all manufacturers.

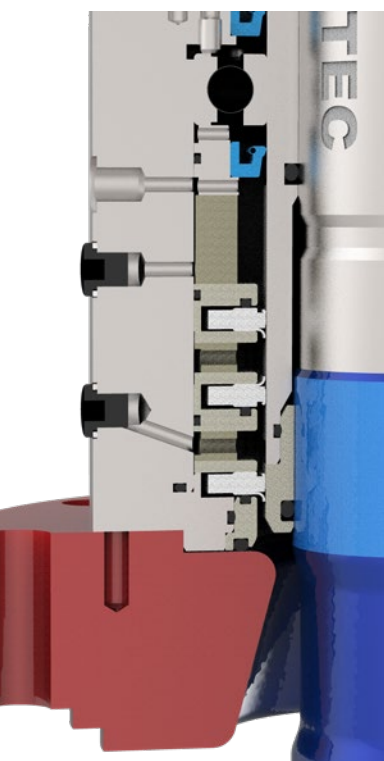
A patented lip design and the patented combination of PTFE sealing lip and plain bearing in the lip sealing element impart **particularly high mobility** to the new 'SeccoLip' () dry-running seal.

With this patented technical feature, the lip seal directly and safely compensates for radial deflections of the shafts in agitators and reactors (Youtube: ).

The modular seal was specially developed for the operating conditions of glass-lined reactors.

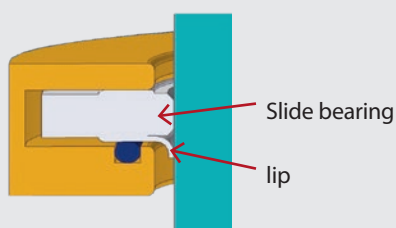
The most important advantages of the SeccoLip at a glance:

- **Low operating costs** through supply and barrier systems not required within many applications.
- Extremely **high compensation capability** against shaft deflections during operation thanks to patented lip system with integrated self-lubricating slide bearing.
- **No additional sensors** and monitoring functions required
- **Completely closed housing** externally without visible screw connections and undercuts.
- **Modular system**, adapted to the application areas of glass-lined agitator vessels (pressure: -1/+6 bars, temperature: -10°C/+200°C) and sliding speeds up to 2 m/s.
- The lip seal is ATEX and FDA compliant.



1. Sealing lip/sliding part combination

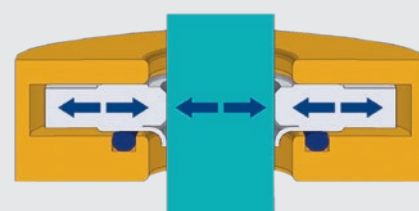
- compact, patented design
- dry running
- independent of direction of rotation
- Sealing element made of light-coloured chemically highly resistant PTFE compound
- FDA compliant
- perfect installation on machine shaft
- Identical parts in all sealing stages



2. Movable in all directions

The special, patented compensation function for the sealing lip/sliding part combination directly and reliably compensates for any shaft deflections and renders additional components superfluous:

- Elimination of compensating elements such as O-ring, expansion washer or metal bellows



MODULAR SYSTEM

SeccoLip TT Cartridge with

- Glass-lined standard base flange (Illustration 1)
- Glass-lined thermo base flange with heating/cooling function (Illustration 2)
- Glass-lined CIP base flange for cleaning the surfaces in contact with the product, the agitator shaft and the drive connection (Illustration 3)


Range of application

- Shaft diameter: $d = 40, 50, 60, 80, 100, 125 \text{ mm}$ (1.57 ... 4.92")
- Pressure: $p_1 = \text{vacuum} \dots 6 \text{ bar}$ (87 PSI)
- Temperature: $-10^\circ\text{C} \dots +200^\circ\text{C}$ ($14^\circ\text{F} \dots +392^\circ\text{F}$)
- Sliding speed: $v_g = 0 \dots 2 \text{ m/s}$ ($0 \dots 6 \text{ ft/s}$)
- Axial movement: $\pm 3.0 \text{ mm}$
- Radial movement: 1.0 mm

Materials

- Lip sealing element: Light, chemically highly resistant PTFE compound with FDA
- Secondary sealing elements in contact with product: FFKM (with FDA)
- Secondary sealing elements not in contact with product: EPDM
- Metal parts: 316L / 1.4404
- Base flange: steel suitable for glass lining, THALETEC glass lining RAS blue

Available accessories

- Gas supply units with and without monitoring
- THALETEC flubbR roller bearing lubrication system (Flyer K086 ) (Illustration 4)
- Mounting kit for speed sensor (Illustration 5)

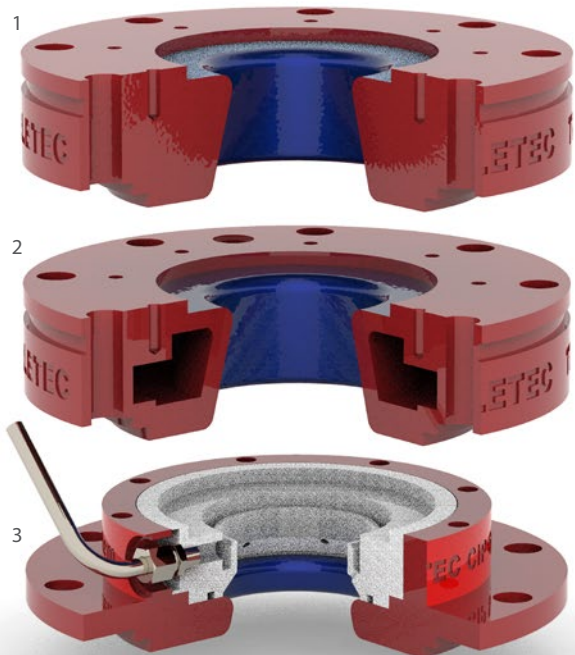
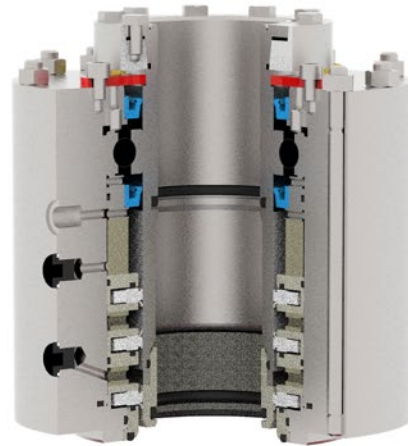


Illustration 4



Illustration 5

Special features of the THALETEC SeccoLip TT

The **SeccoLip TT** specially developed for THALETEC differs from the standard version in a number of important features:

- All **supply connections** are **doubled** so that the blocking and supply chambers are also suitable for CIP and SIP.
- **2 independent barrier/supply chambers** (3-lip system).
- The materials used for the main and secondary seals were selected so that the lip seal can be used **without restriction** in both chemical and pharmaceutical applications.
- THALETEC uses a special **glass-lined base flange**, which enables the design of the seal cartridge to be particularly short and compact.
- The glass-lined base flange is available in **three versions**: As a standard base flange, as a thermo base flange for targeted cooling of the sealing unit and as a CIP base flange.

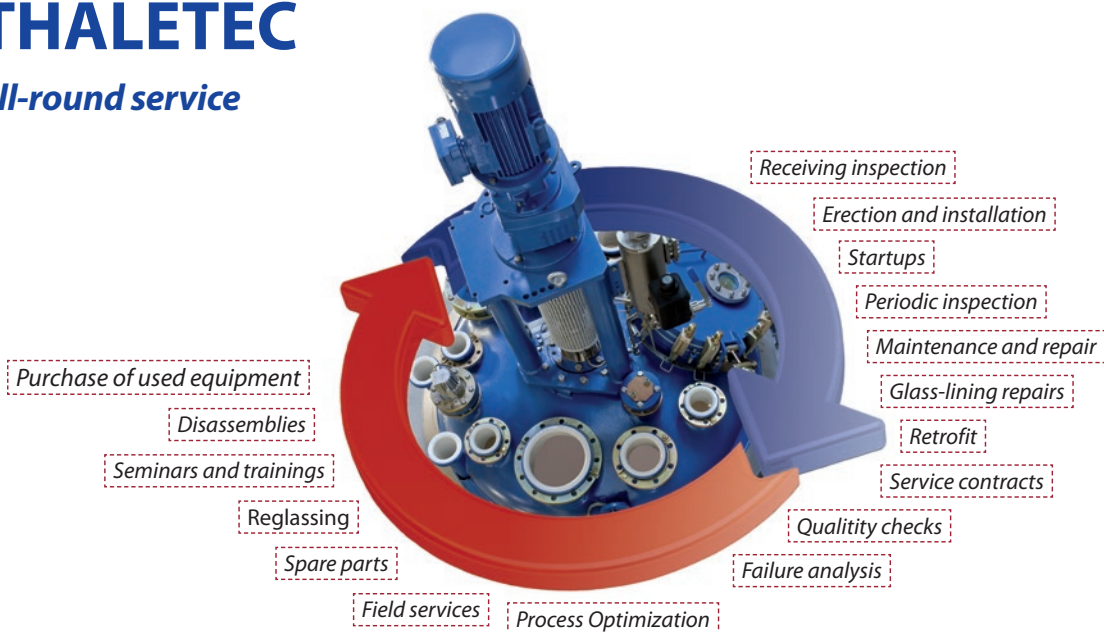
We would like to advise you regarding the advantages of glass lined equipment like:

- Glass lined reactors acc. to DIN 28136
- Glass lined Pharma Reactors
- Components for pharmaceutical and high purity applications
- Mixing technology for pharmaceutical and chemical industry
- Reactors for Polymerization
- Storage Tanks and Receivers
- Columns
- Heat Exchangers
- Sensor technology
- Accessories

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